



# Salt River & Verde River Watersheds Water Supply Update

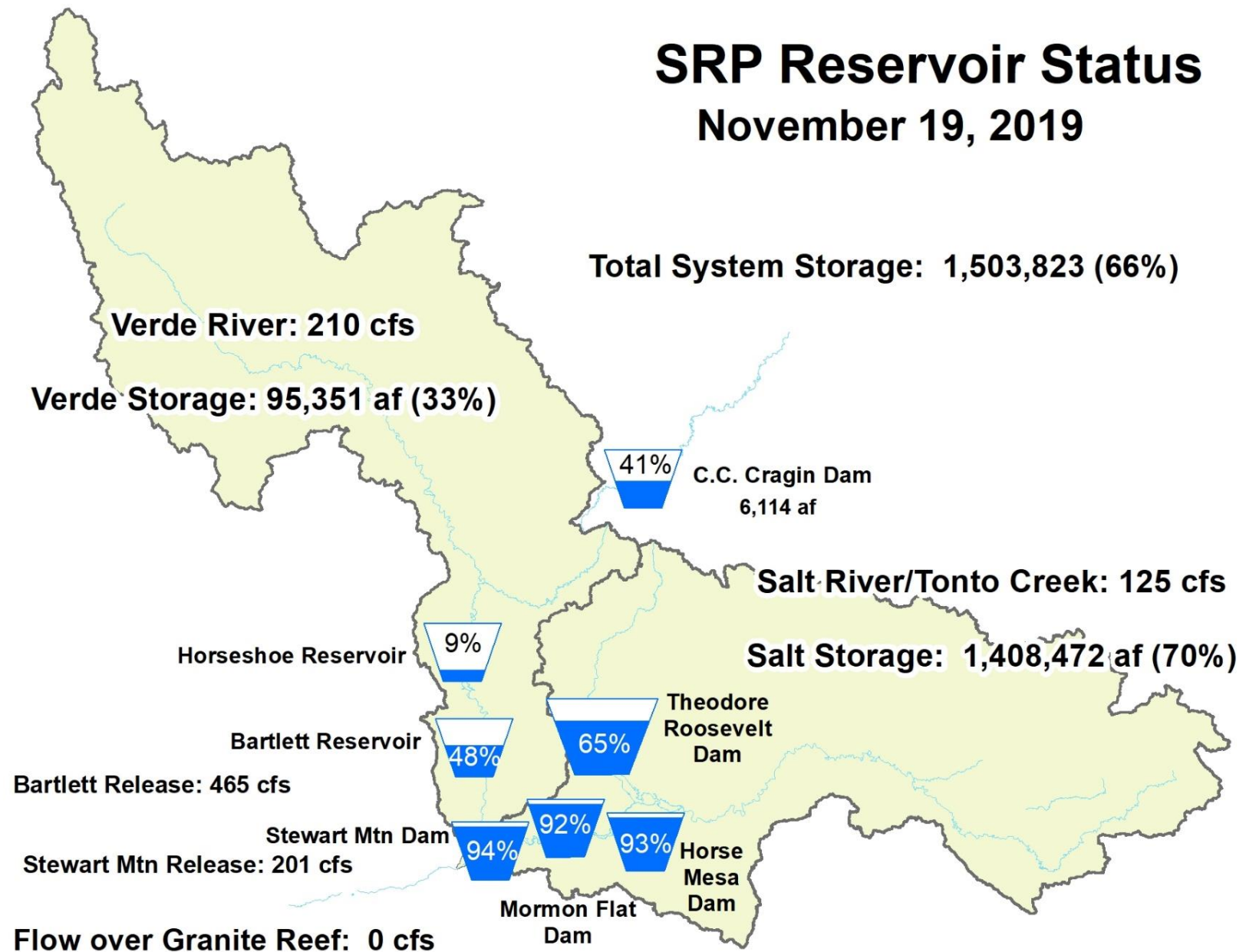


Delivering water and power™

Stephen Flora, Senior Hydrologist  
ADWR Drought ICG Meeting – June 24, 2020

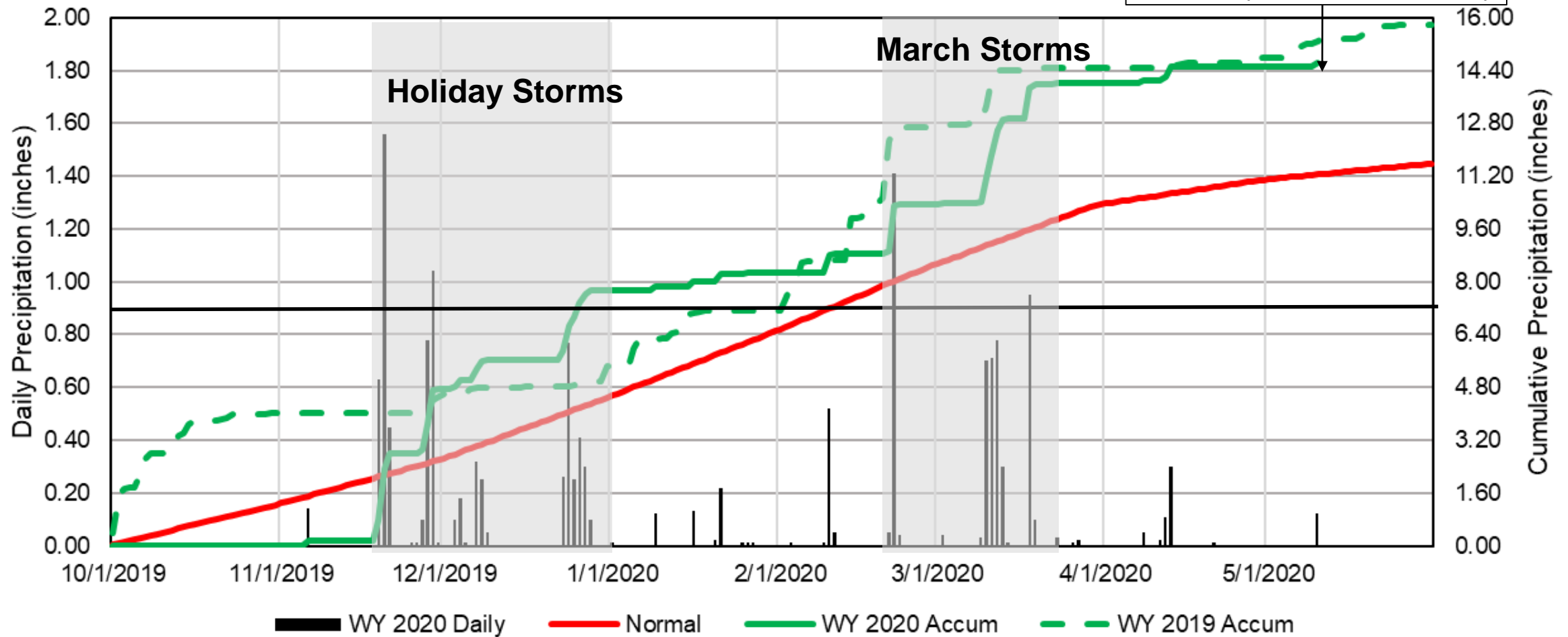
# SRP Reservoir Status

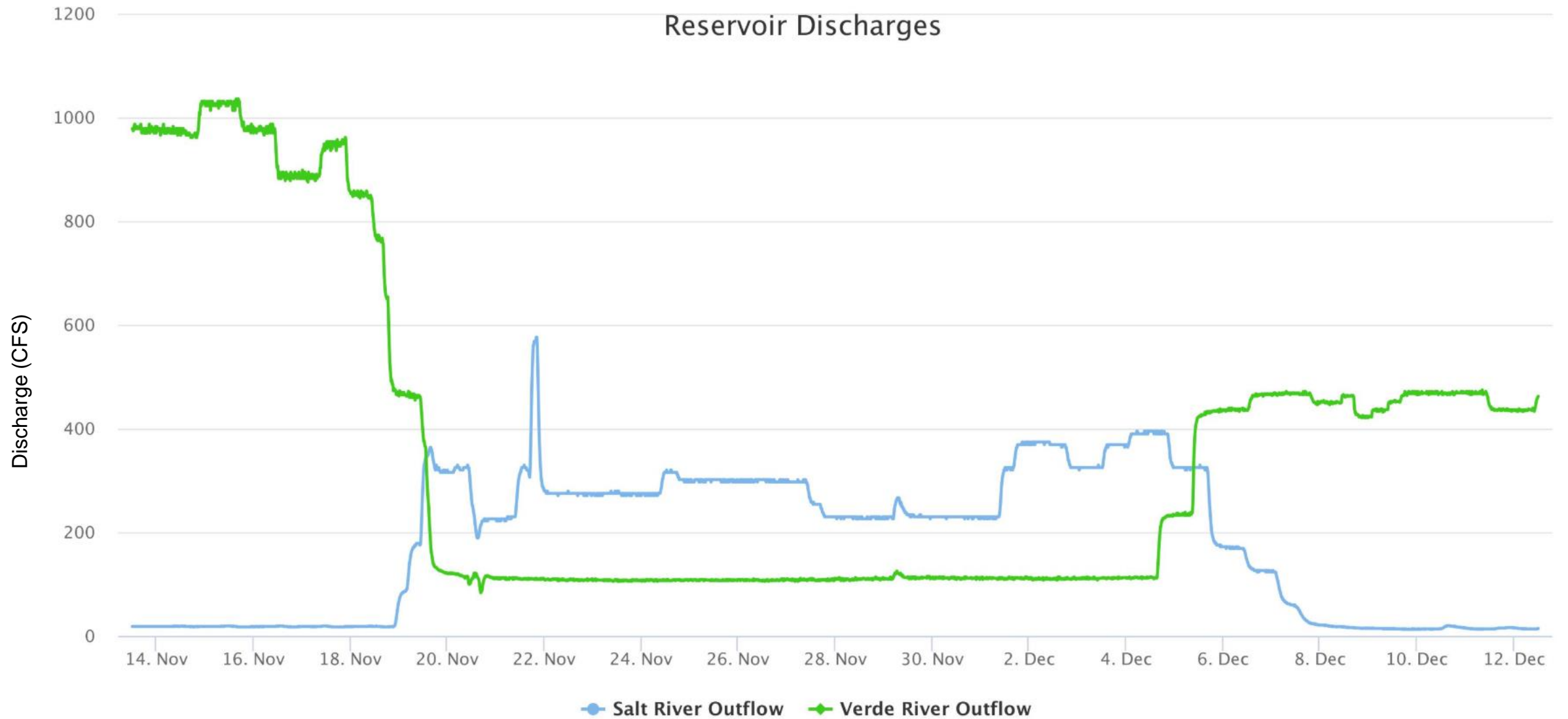
November 19, 2019





# Cumulative Watershed Precipitation: Fall-Winter-Spring (WY 2020)



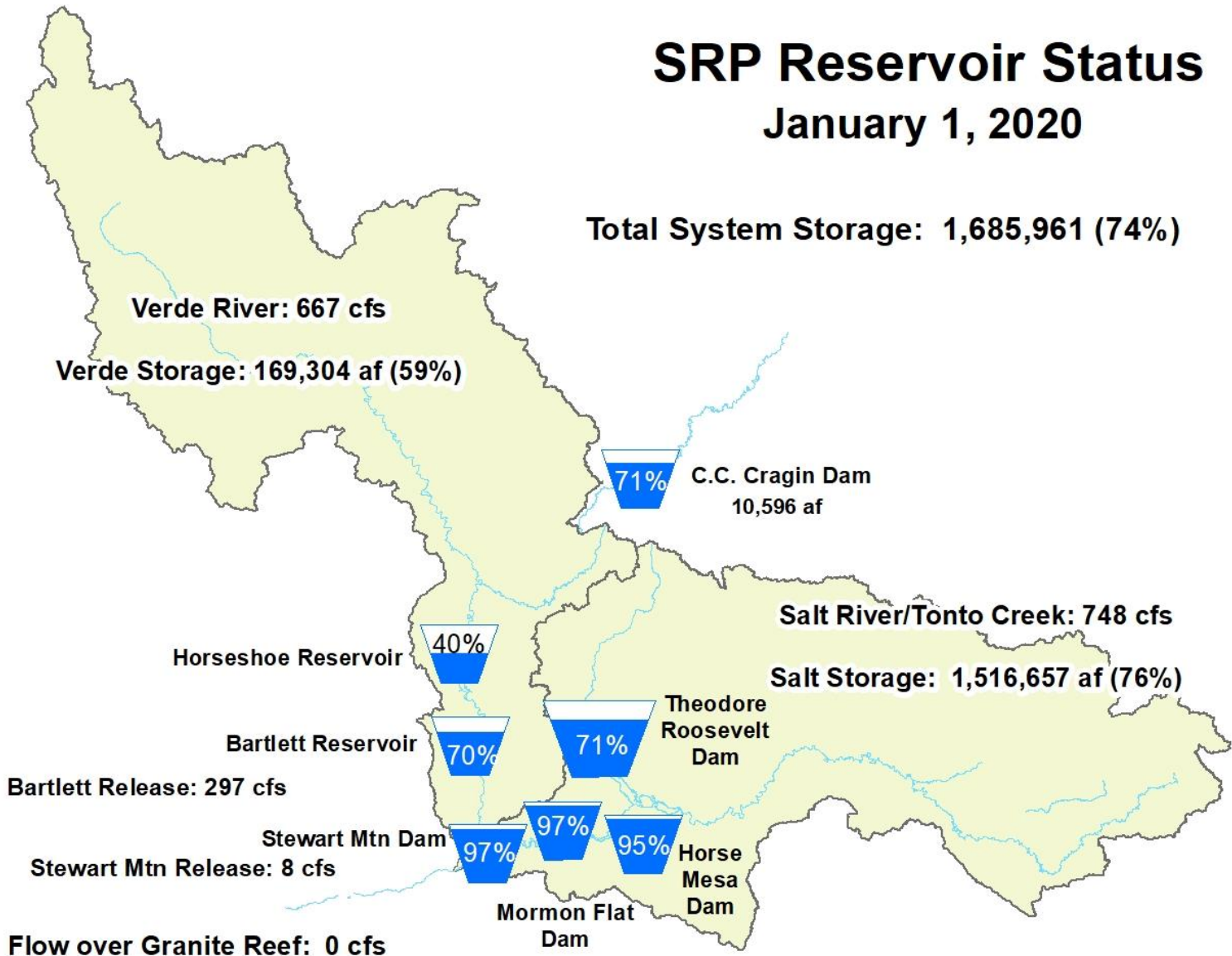


SRP Operational Dashboard Mon May 11 2020 15:30:49 GMT-0700 (Mountain Standard Time)

# SRP Reservoir Status

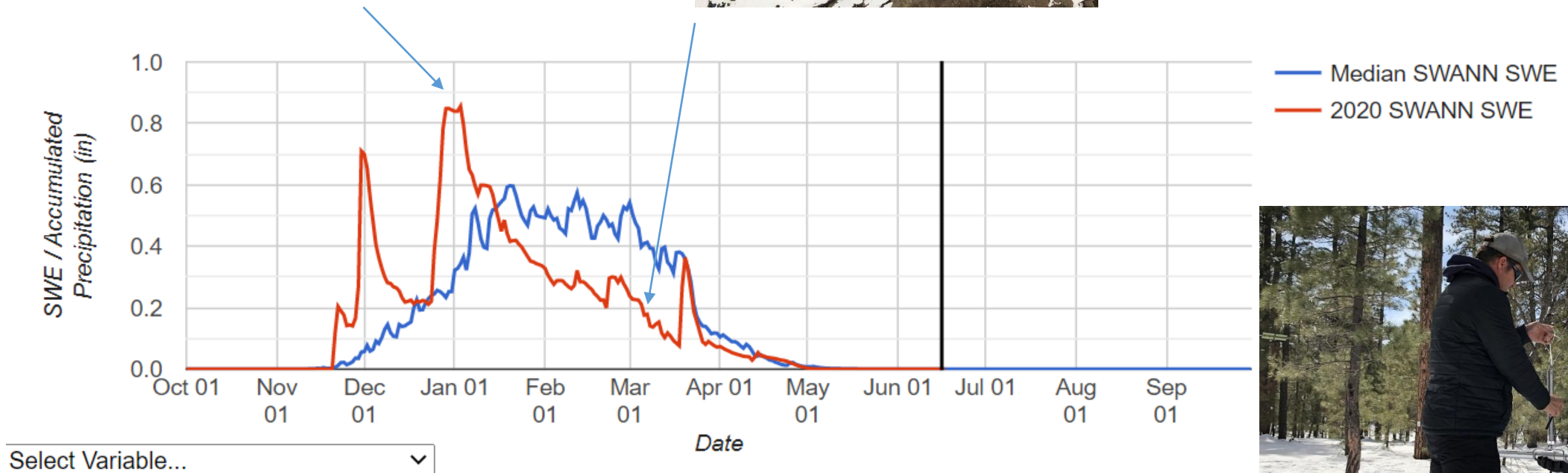
January 1, 2020

Total System Storage: 1,685,961 (74%)





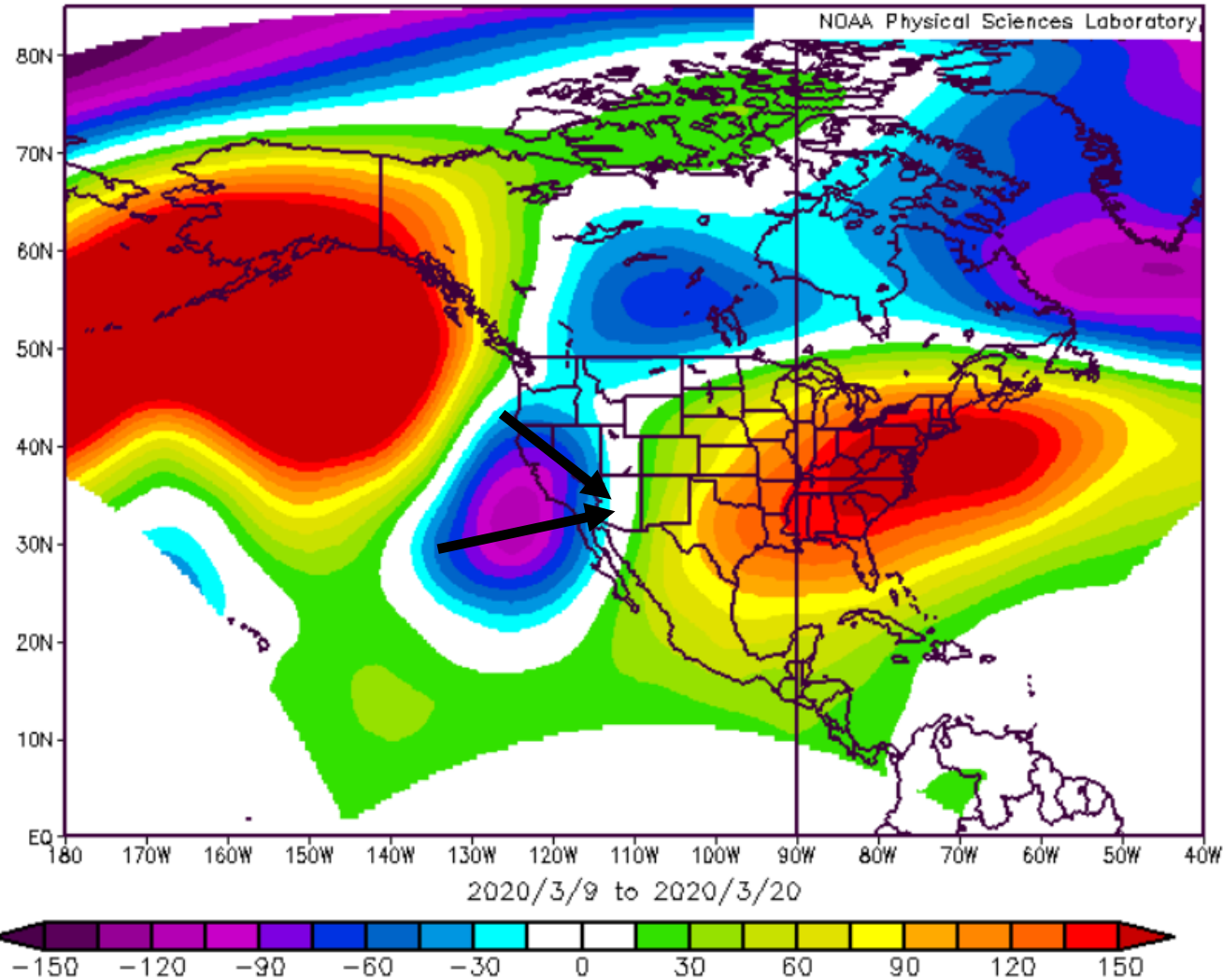
## Salt-Verde Watershed Snow Water Equivalent (SWE) Water Year 2020



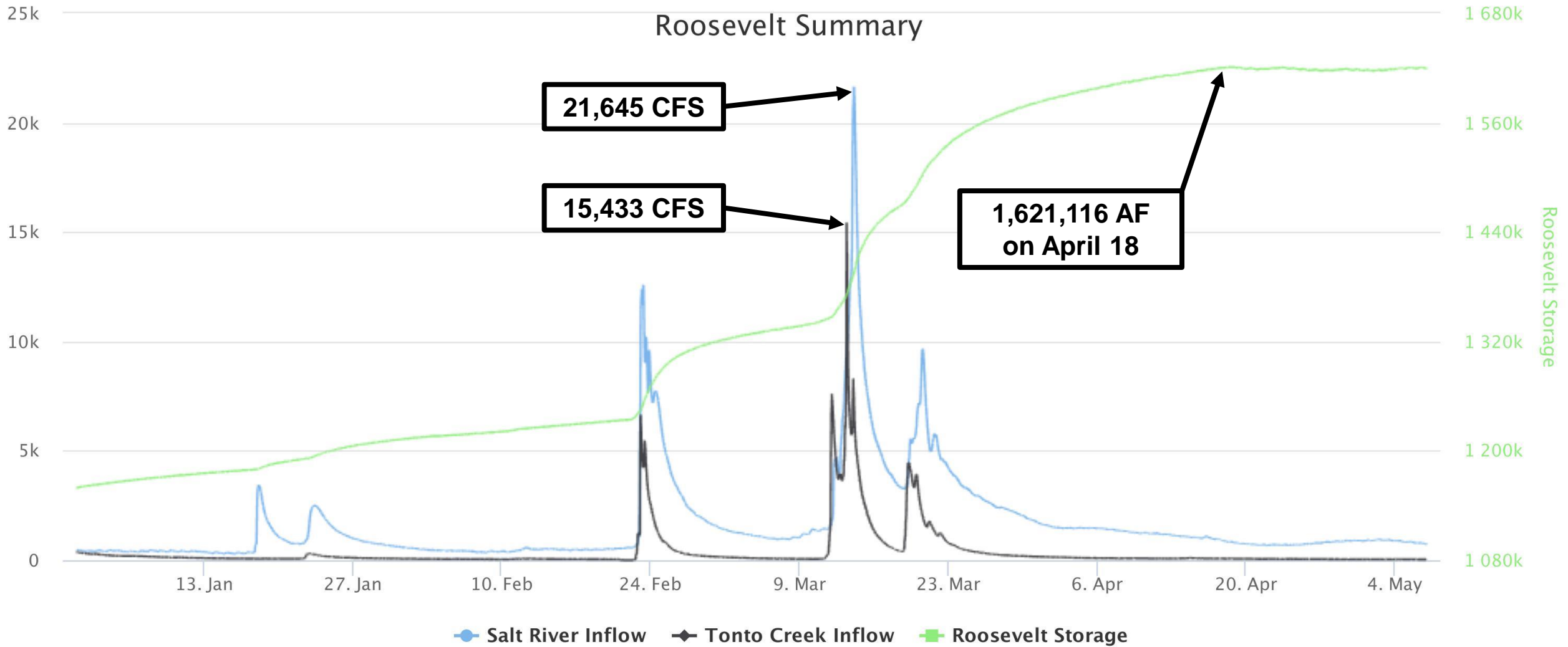


## Mar. 9 to Mar. 20 – 3.68” in March, wettest March since 1992

NCEP North American Regional Reanalysis  
500mb Geopotential Height (m) Composite Anomaly 1981–2010 climo

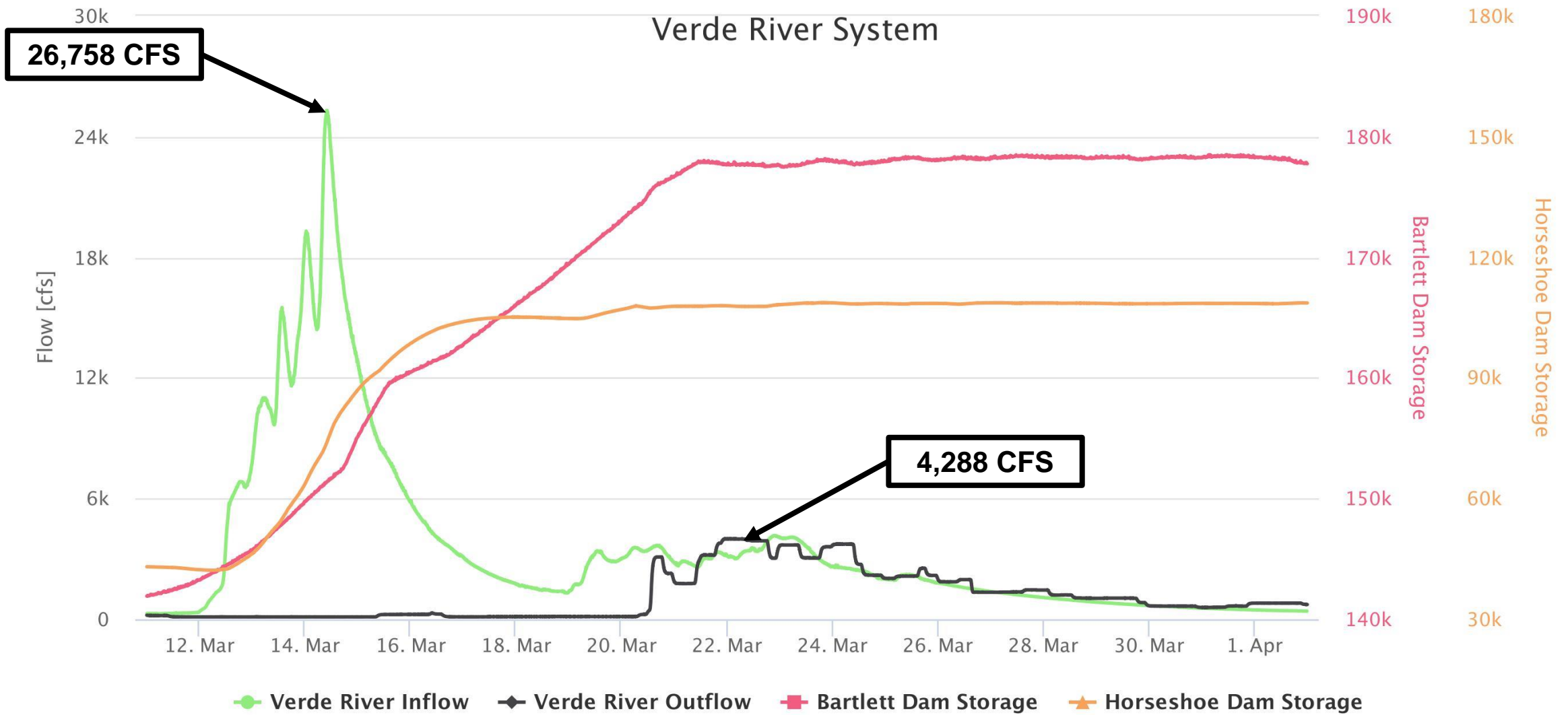


## Roosevelt Summary



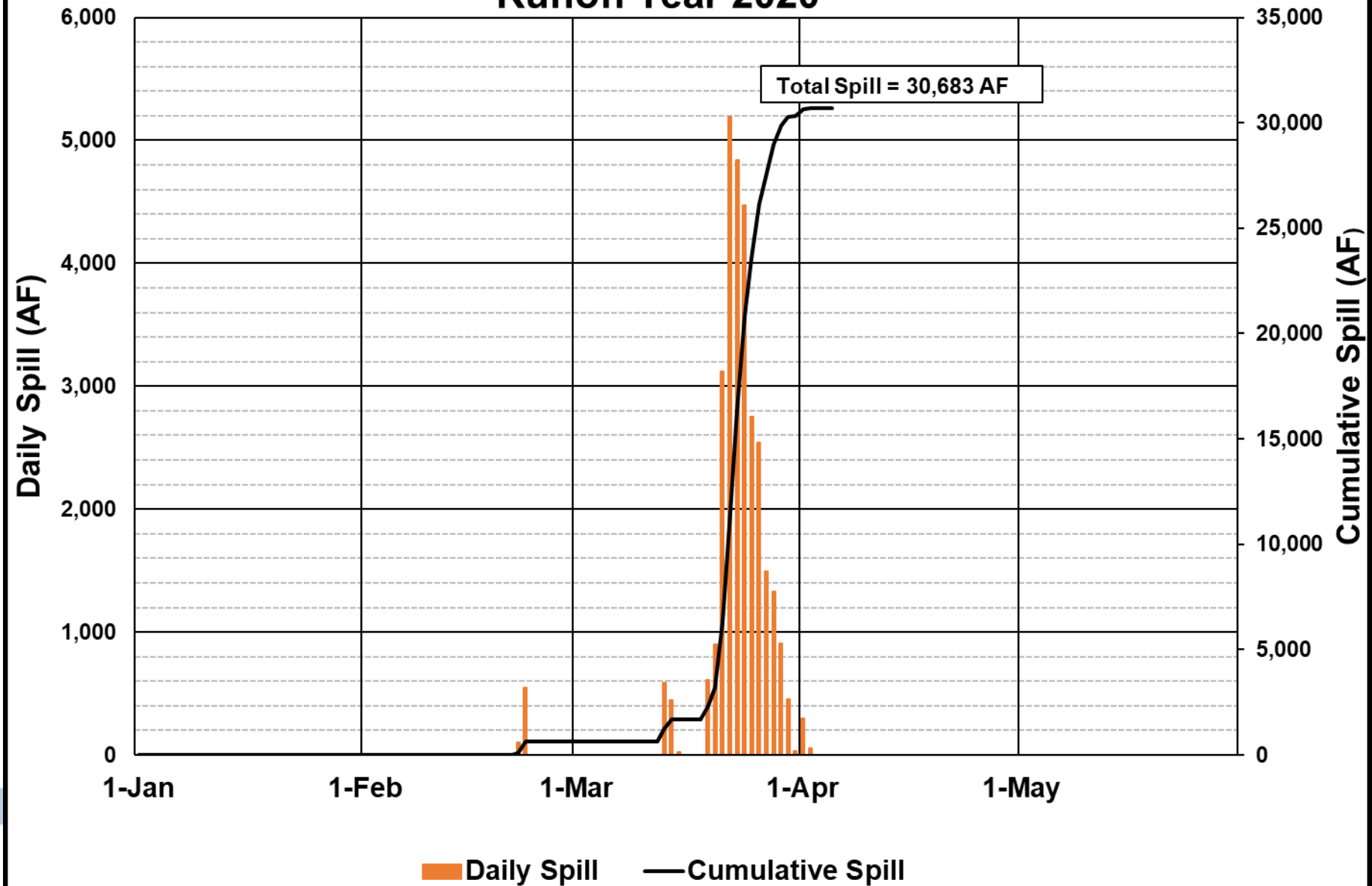
SRP Operational Dashboard Thu May 07 2020 10:23:10 GMT-0700 (Mountain Standard Time)





SRP Operational Dashboard Fri May 08 2020 08:15:41 GMT-0700 (Mountain Standard Time)

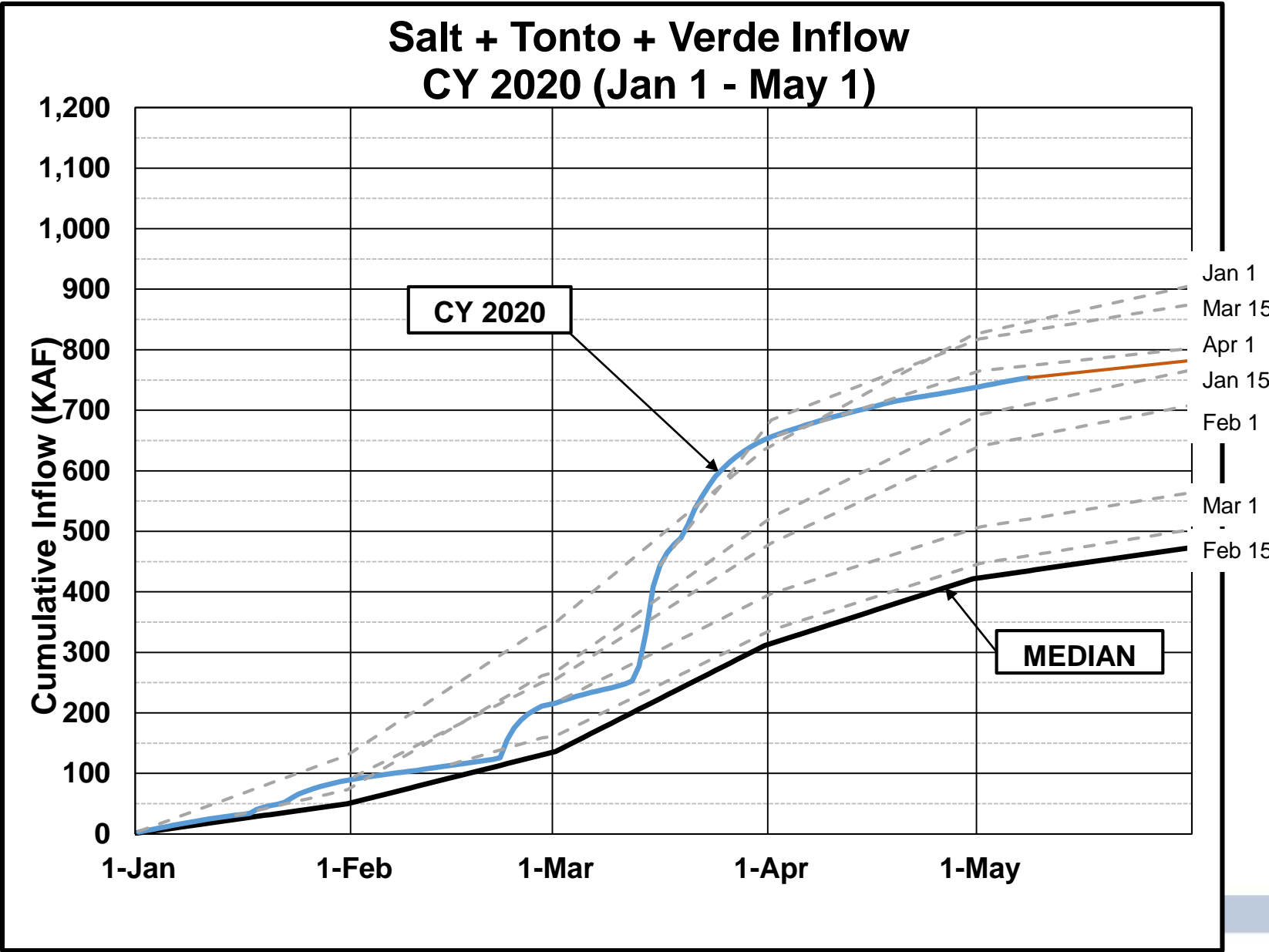
## Total Spill Over Granite Reef Dam Runoff Year 2020



Year	Jan-May Inflow (AF)	May 1 Storage (AF)	May 1 Percent Full
<b>2010</b>	<b>1,419,000</b>	<b>2,311,000</b>	<b>100</b>
2011	223,000	2,006,000	87
2012	196,000	1,512,000	66
2013	449,000	1,453,000	63
2014	148,000	1,300,000	56
2015	328,000	1,314,000	57
2016	338,181	1,307,000	57
<b>2017</b>	<b>970,440</b>	<b>1,731,000</b>	<b>76</b>
2018	100,013*	1,337,000	58
<b>2019</b>	<b>1,126,000</b>	<b>1,850,000</b>	<b>81</b>
<b>2020</b>	<b>782,000**</b>	<b>2,256,000</b>	<b>98</b>

\*Winter 2018 Lowest Jan-May Inflow = 100,013 AF (17% of median)

\*\*Winter 2020 Jan-May Inflow = 782,000 AF (150% of median)

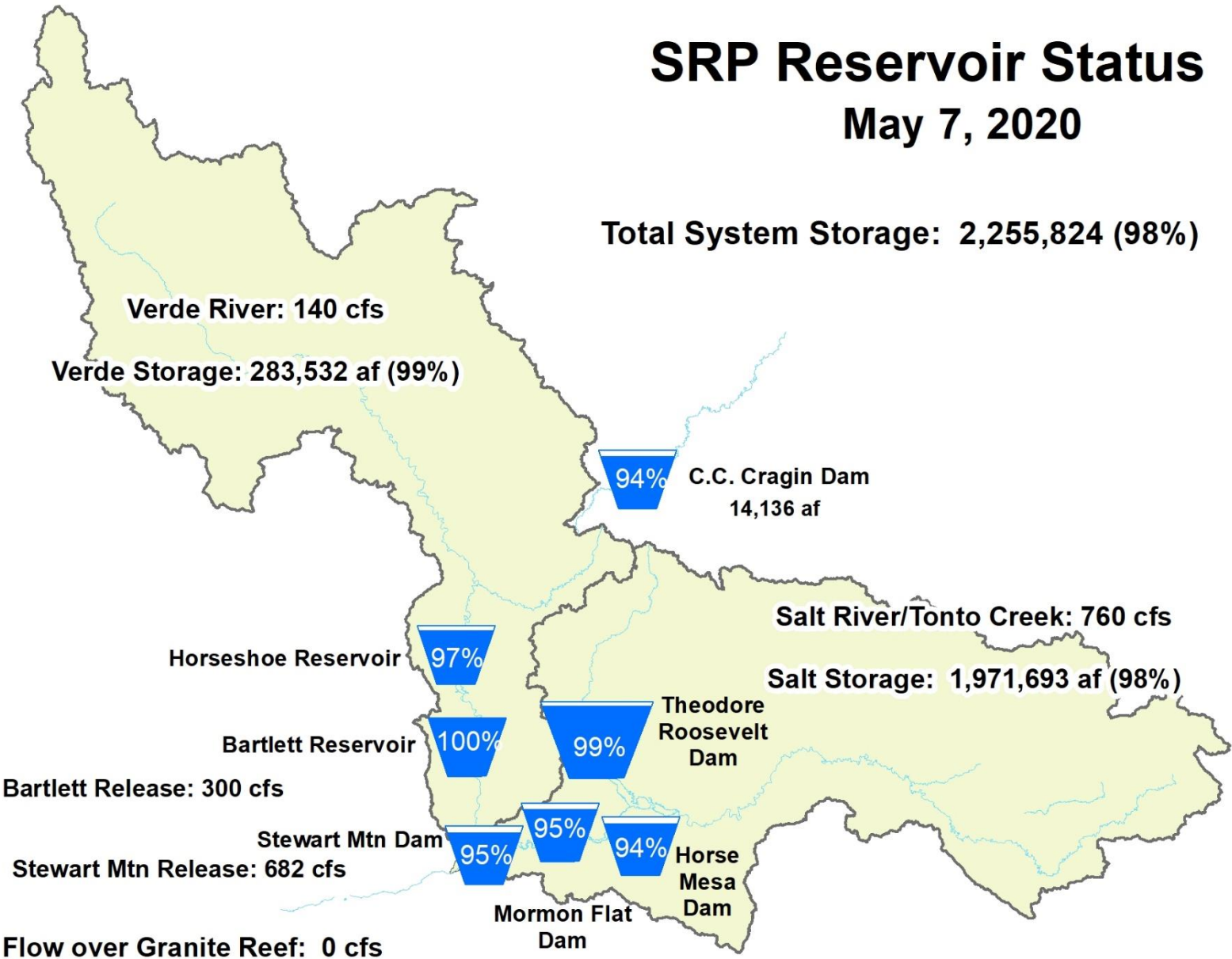




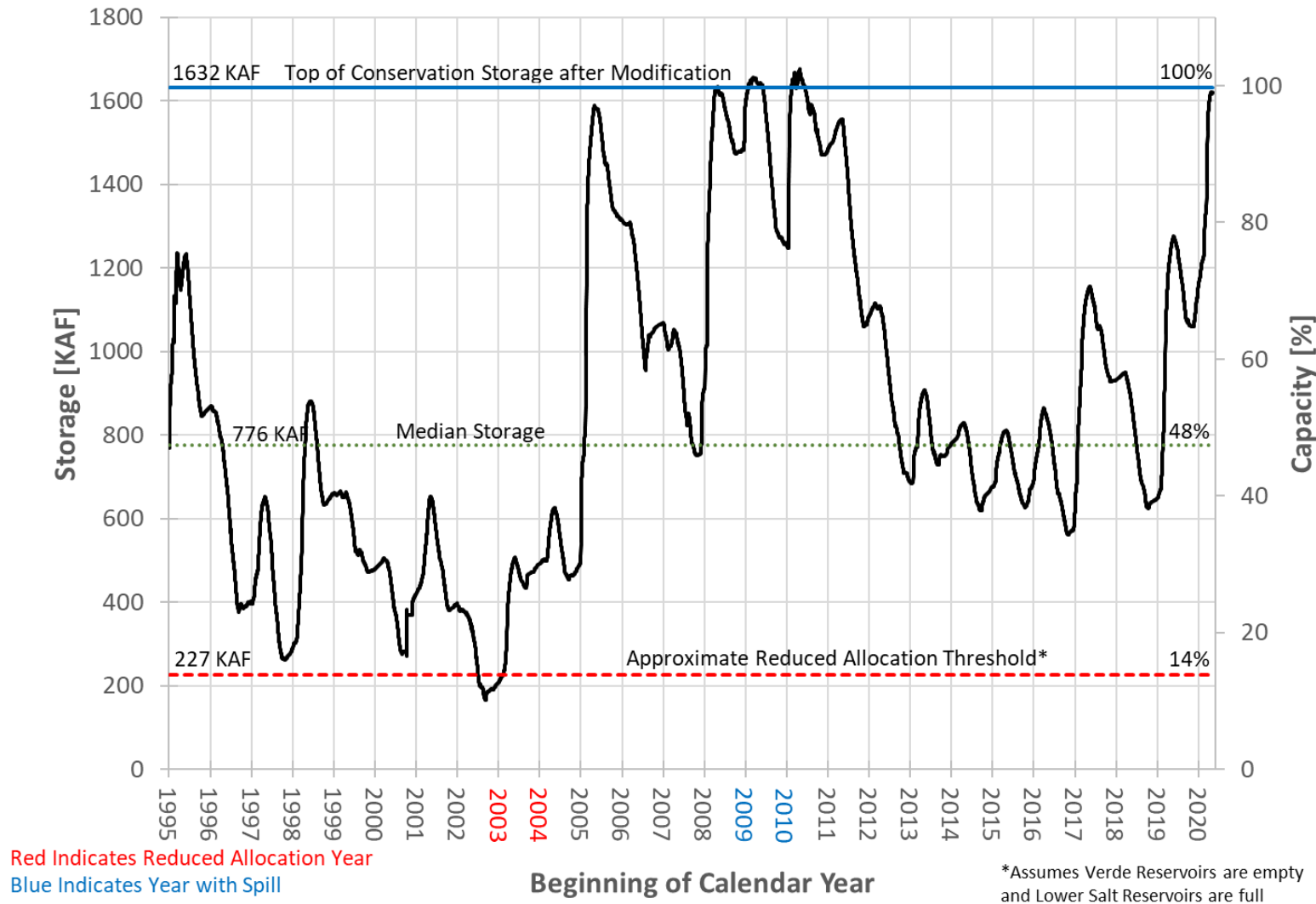
# 2020 Wet Winter Impacts on Current Operations

- Flows on the Salt River remained high into late April and early May with late season snowmelt.
- Partial water use between Salt/Verde in May, June, July for Horseshoe Drawdown
- C.C. Cragin (spilled 12,611 AF)
- SRP Project Reservoir Operations Plan (PROP) decreased 2020 total groundwater use from 100,000 AF to 80,000 AF

## SRP Reservoir Status May 7, 2020



## Roosevelt Storage

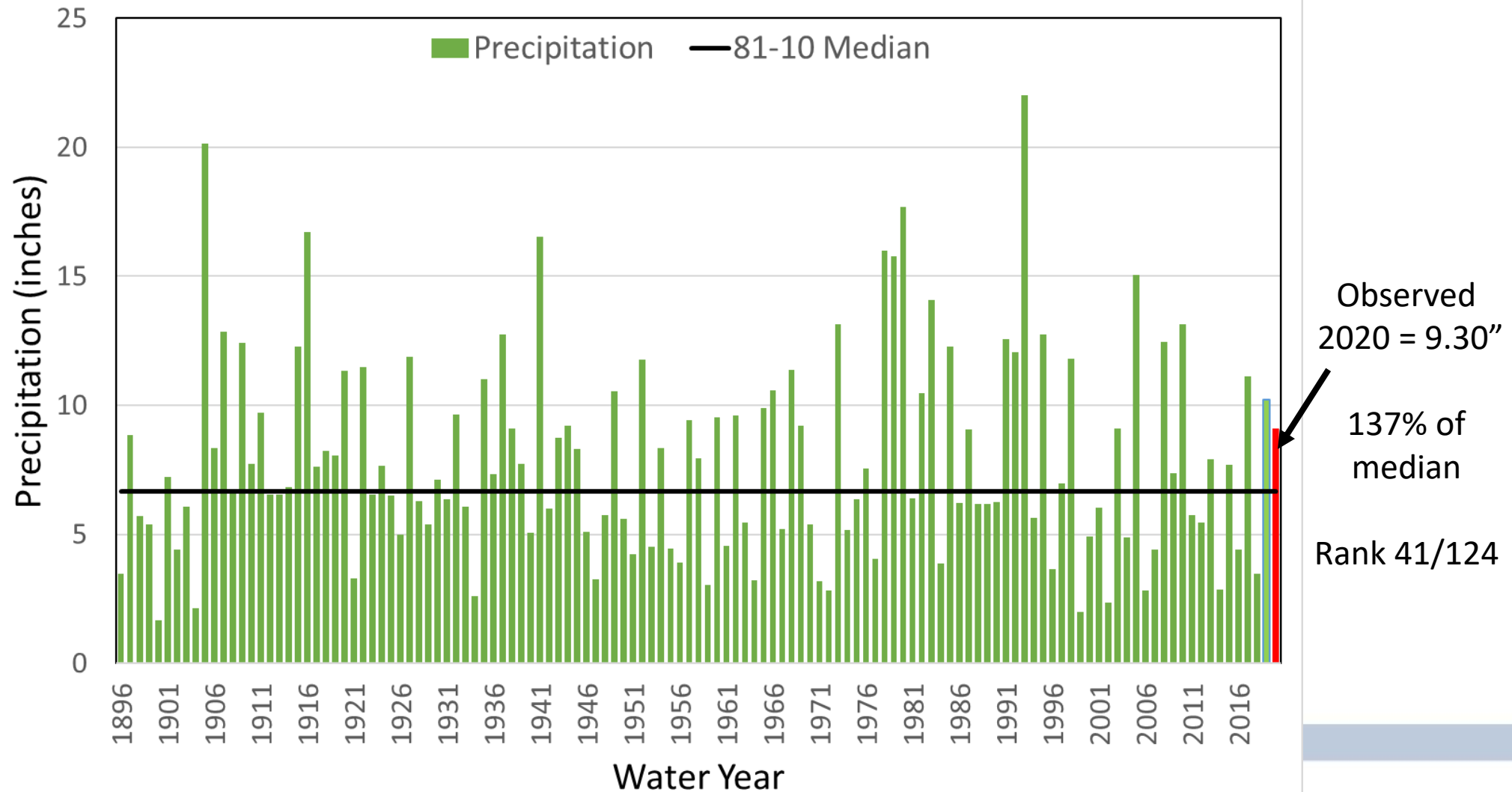


May 2020 Roosevelt Elevation = 2150.26' (1,621,100 AF)

## NCS and Virtual Spill

- NCS accrual started mid-March
- NCS was approximately 17,000 AF short of filling (254,000 AF)
- Virtual spill began on March 31 and ended on April 22 at 2400 hours
- As a result, most deliveries have been from the Salt in April

## Salt-Verde Watershed Average Precipitation December-March





# Accumulated Precipitation from October 1, 2019 – March 31, 2020

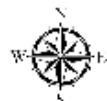
Verde: 14.18 ( 155% of Normal )  
Salt: 13.89 ( 134% of Normal )  
Combined: 14.04 ( 132% of Normal )

Roosevelt Precipitation  
including Sept 23, 2019

**26.40"**

- NWS COOP
- GOES
- \* MISSING VALUES

Roosevelt = 192% Normal

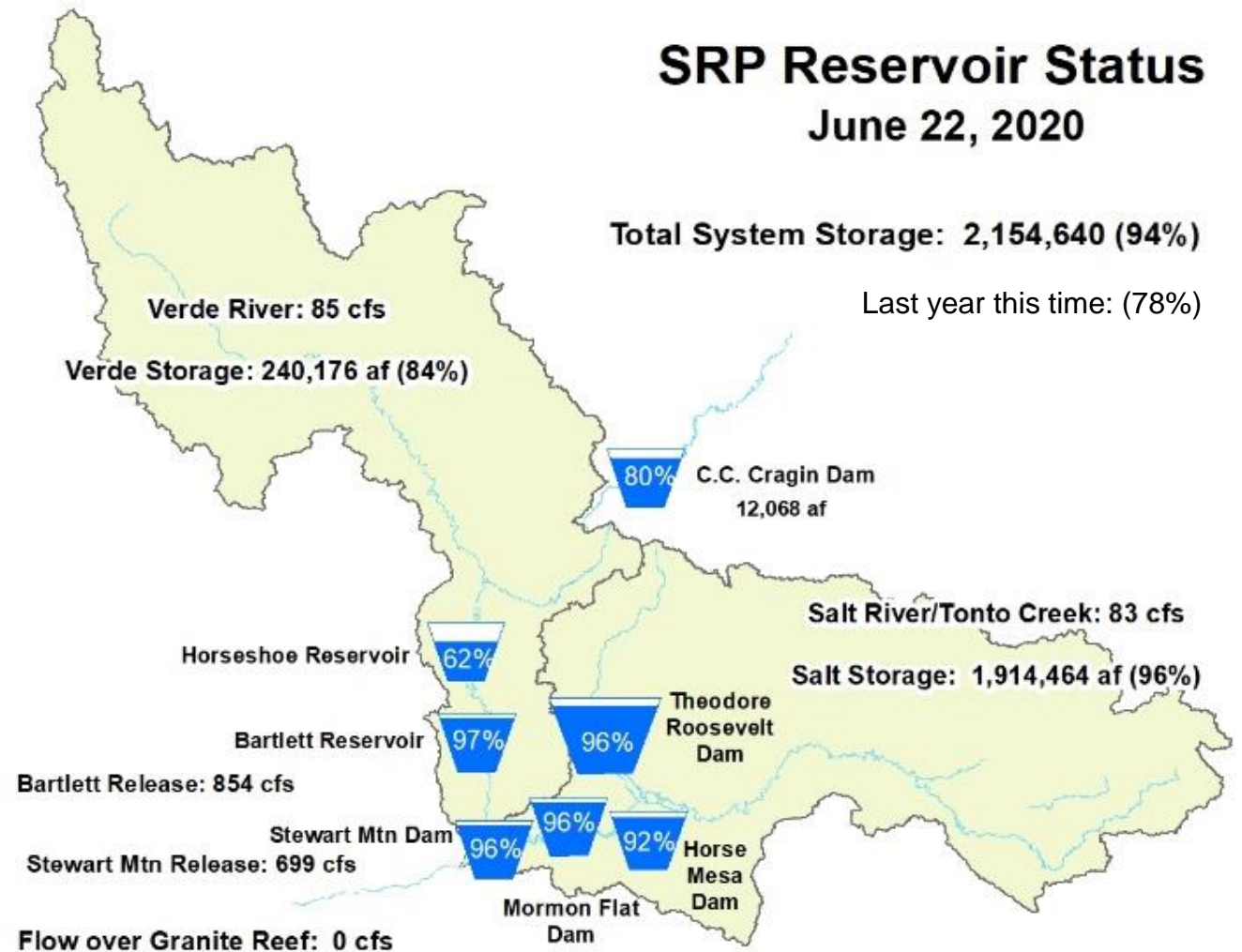


# Is The Drought Over?

**It's Possible! An Optimist Says...**  
**"Three of The Last 4 Years**  
**Have Been WET."**

**Or, Maybe Not! A Pessimist Points Out...**  
**"Seven of The Last 10 Years Have Been**  
**DRY."**

**Either way – It was a good winter!**  
**Probably need another.**



# Questions?

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